

ACADEMY FOR SMART SPECIALISATION



THIS BROCHURE contains the results of many years' research in a number of different areas – or at least artistic interpretations of these results.

ELEVEN CREATIVE POSTERS based on Karlstad University research projects are presented. Hopefully these illustrations will lead to many new interesting ideas, discussions and projects.

THESE PROJECTS FORM PART OF the Academy for Smart Specialisation, a partnership between Karlstad University and Region Värmland. The partnership brings together researchers, companies, social actors, funders and entrepreneurs.

SMART SPECIALISATION involves finding areas in which the region is already strong and has the potential to become internationally competitive. In Värmland's Research and Innovation Strategy for Smart Specialisation – part of the Värmland Strategy – six such areas are identified:

- · Value-creating services
- · Forest-based bioeconomy
- Digitalisation of welfare services
- Advanced manufacturing and complex systems
- Digitalised experience of nature, culture and place
- Systems solutions with solar energy

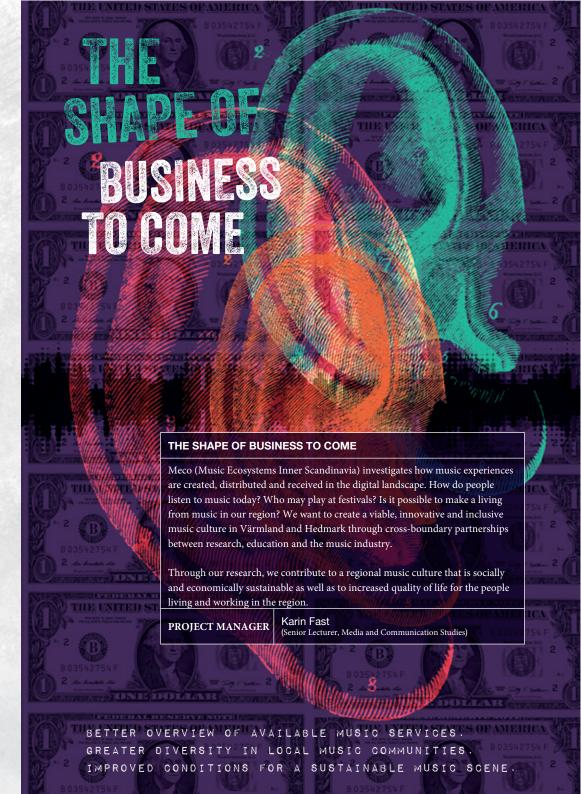
In addition, a specific gender-mainstreaming initiative is included in collaboration with the Centre for Gender Studies.

We hope that these eleven works of art will result in inspirational conversations with the researchers behind the projects. Do not hesitate to contact us if you have any suggestions for collaborations in the Academy for Smart Specialisation.

ANDERS OLSSON

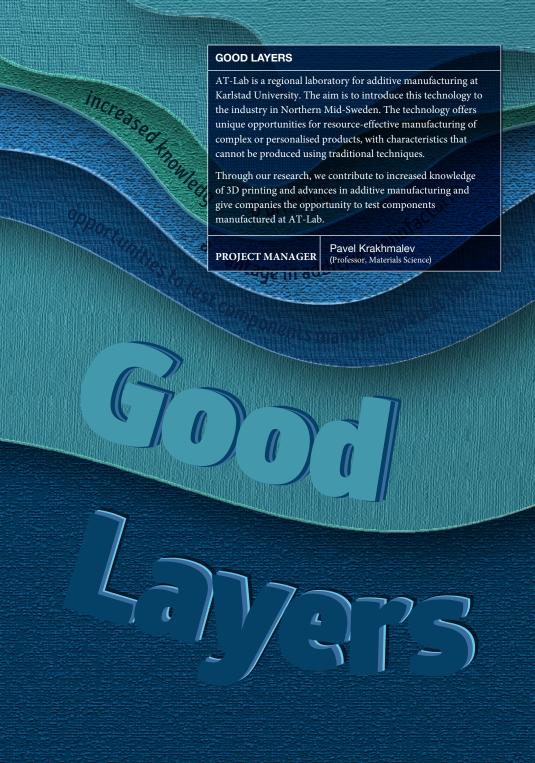
HÅKAN SPJUTH

Coordinators of the Academy for Smart Specialisation at Region Värmland and Karlstad University, respectively.

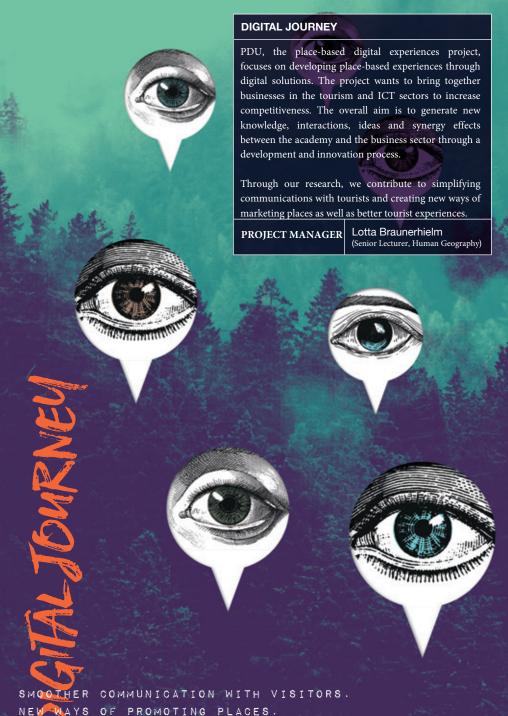




SCREEN TIME OF OUR LIVES







BETTER EXPERIENCES FOR TOURISTS.

EVERYONE'S BUSINESS The Gender Academy develops and applies research on gender, innovation and sustainable development. The aim is to equip and develop Värmland and its business sector through enhanced knowledge of gender, organisational change, gender mainstreaming and awareness of norms to increase innovation capacity, research and development intensity and the growth of the region's small and medium-sized companies. Through our research, we contribute to more effective work environments, facilitate the understanding of the value of diversity, and generate insights into the commercial benefits of gender equality. Ulf Mellström PROJECT MANAGER (Professor, Gender Studies) Everyone's Business benefits through equality. More efficient work environments. Understanding of the value of diversity.

TRY IT, YOU'LL LIKE IT!

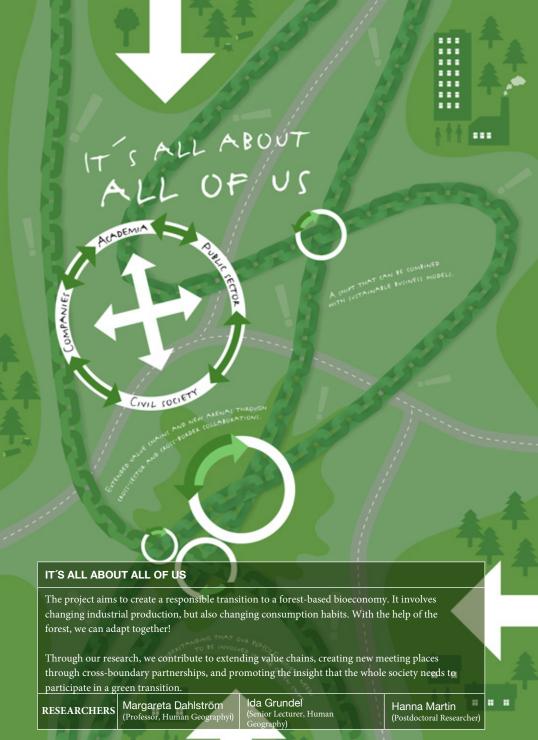
Karlstad Lean Factory is a recently established development and meeting environment at Karlstad University. It includes a flexible simulator for training about lean thinking in an industrial environment. The aim is to optimise processes and production in the manufacturing industry and establish innovation capacity in organisations.

Through our research, we contribute to more environmentally friendly production, involving staff and providing better opportunities to simulate and test production designs.

PROJECT MANAGER Leo de Vin

(Professor, Mechanical and Materials Engineering)

ALL YOU NEED Digitalwell Research aims to reinforce research, technological development and innovation in small and medium-sized business in the area of digital welfare services. Through systematic user involvement, the project will increase companies' ability to develop new services that securely meet the needs of the public sector. Through our research, we contribute to the secure digitalisation of welfare services, improve interaction between individuals and welfare services and provide services that are adapted to actual Erik Wästlund Mona Persenius Stefan Alfredsson PROJECT MANAGERS (Senior Lecturer, (Senior Lecturer, Nursing) (Senior Lecturer, Psychology) Computer Science)



TREETHINK

FoSBE, the Research Environment for a Circular Forest-Based Bioeconomy, collaborates with companies to develop new and existing test-bed environments, process steps, system designs and materials. We focus on how residue streams can be utilised to create new bio-based products, such as food packaging that is better adapted to sustainable development. We also work on issues related to modelling and system optimisation for forest-based process engineering and find ways of governing and managing innovation initiatives.

Since our research is conducted in close cooperation with companies, we can contribute new knowledge preparing them to fulfil future needs for new biomaterials and renewable bioenergy.

PROJECT MANAGER

Karin Granström (Senior Lecturer, Environmental and Energy Systems)

Treethink

New and improved testued solutions

More companies active in research and innovation projects

Internationally recognized research environments in forest-based bioeconomy

GREEN CASH

This project involves profiting from the sustainable bioeconomy. New business opportunities can be discovered through improved knowledge of client needs – and this may lead to innovative offers that cannot easily be copied by others.

Through our research, we contribute to win-win solutions in the green bioeconomy, enhanced competiveness and increased profits from green values

RESEARCHER

Mikael Johnson (Senior Lecturer, Business Administration

> WIN-WIN soluti forest bioecon

INCREASED profitability through green values

NEW business opportunities through knowledge of CUSTOMER NEEDS

GREEN CASH







ACADEMY FOR SMART SPECIALISATION



